## Statistical Models And Methods For Biomedical And Technical Systems

## DOWNLOAD HERE

1;Contents;6 2;Preface;19 3;Contributors;21 4;List of Tables;28 5;List of Figures;31 6;PART I Cox Models, Analyses, and Extensions;35 6.1;1 Extended Cox and Accelerated Models in Reliability, with General Censoring and Truncation; 36 6.2; 2 Corrected Score Estimation in the Cox Regression Model with Misclassified Discrete Covariates;55 6.3;3 A Varying-Coeffcient Hazards Regression Model for Multiple Cross-E.ect;65 6.4;4 Closure Properties and Diagnostic Plots for the Frailty Distribution in Proportional Hazards Models;75 6.5;5 Multivariate Survival Data With Censoring;86 7;PART II Reliability Theory Degradation Models;97 7.1;6 Virtual (Biological) Age Versus Chronological Age;98 7.2;7 A Competing Risks Model for Degradation and Traumatic Failure Times;111 7.3;8 Generalized Birth and Death Processes as Degradation Models;122 7.4;9 Nonperiodic Inspections to Guarantee a Prescribed Level of Reliability;135 7.5;10 Optimal Incomplete Maintenance for Weibull Failure Processes;152 7.6;11 Are Nonhomogeneous Poisson Process Models Preferable to General-Order Statistics Models for Software Reliability Estimation?;161 7.7;12 Multistate System Reliability Assessment by Using the Markov Reward Model; 177 8; PART III Inferential Analysis; 193 8.1; 13 Asymptotic Certainty Bands for Kernel Density Estimators Based upon a Bootstrap Resampling Scheme; 194 8.2; 14 Estimation of Rescaled Distribution;210 8.3;15 Nested Plans for Sequential Change Point Detection The Parametric Case;222 8.4;16 Sampling in Survival Analysis and Estimation with Unknown Selection Bias and Censoring;235 8.5;17 Testing the Acceleration Function in Lifetime Models;247 8.6;18 Recent Achievements in Modified Chi-Squared Goodness-of-Fit Testing;262 8.7;19 Goodness-of-Fit Tests for Pareto Distribution; 280 8.8; 20 Application of Inverse Problems in Epidemiology and Biodemography; 296 9;PART IV Analysis of Censored Data;313 9.1;21 A Sampling-Based Chi-Squared Test for Interval-Censored Data;314 9.2;22 Semiparametric Regression Models for Interval-Censored Survival Data, With and Without Frailty E.ects;326 9.3;23 Exact Likelihood Inference for an Exponential Parameter Under Progressive Hybrid Censoring Schemes;337 10;PART V Quality of Life;349 10.1;24 Sequential Analysis of Quality-of-Life Measurements Using Mixed Rasch Models;350 10.2;25 Measuring

Degradation of Quality-of-Life Related to Pollution in the SEQAP Study;365 10.3;26 A Bayesian Ponders The Quality of Life ;384 10.4;27 On the Goodness-of-Fit Tests for Some Continuous Time Processes;398 10.5;28 Nonparametric Estimation of Integral Functionals for Semi-Markov Processes with Application in Reliability;417 10.6;29 Estimators for Partially Observed Markov Chains;431 10.7;30 On Solving Statistical Problems for the Stochastic Processes by the Su.cient Empirical Averaging Method;446 10.8;31 Adaptive Designs for Group Sequential Clinical Survival Experiments;457 10.9;32 Optimal Two-Treatment Repeated Measurement Designs for Two Periods;470 11;PART VIII Measures of Divergence, Model Selection, and Survival Models;480 11.1;33 Discrepancy-Based Model Selection Criteria Using Cross-Validation;481 11.2;34 Focused Information Criteria for the Linear Hazard Regression Model;495 11.3;35 On Measures of Information and Divergence and Model Selection Criteria;511 11.4;36 Entropy and Divergence Measures for Mixed Variables;527 12;PART IX New Statistical Challenges;543 12.1;37 Clinical Trials and the Genomic Evolution: Some Statistical Perspectives;544 13;Index;559 EAN/ISBN : 9780817646196 Publisher(s): Springer, Berlin, Birkhuser Discussed keywords: Ingenieurstatistik, Medizinische Statistik Format: ePub/PDF Author(s): Vonta, Filia -Nikulin, Mikhail - Limnios, Nikolaos

## DOWNLOAD HERE

## Similar manuals: